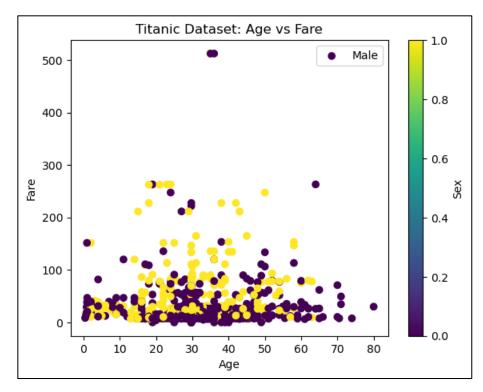
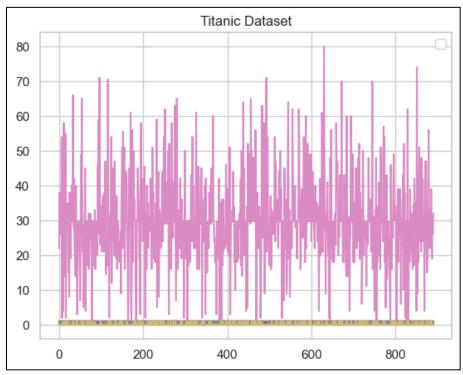
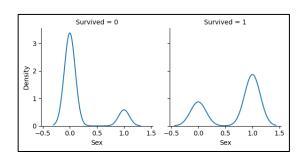
LabSession8

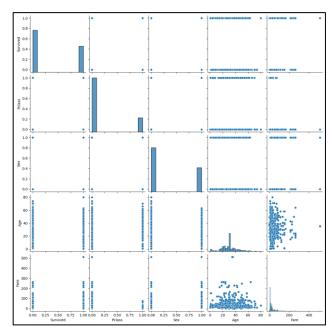
Data Visualization Using Matplotlib:

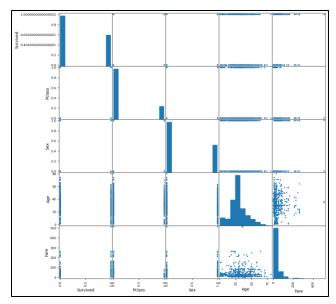




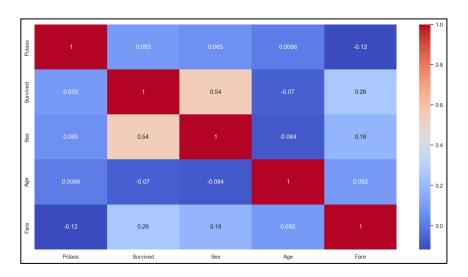
Data Visualization Using Seaborn:







Correlation Matrix:



Running Virtual Environment:

Installation of Matplotlib in VENV:

```
(.venv) gauravvrail@Gauravs-Air LabSession8 % pip3 install seaborn
Collecting seaborn
Obtaining dependency information for seaborn from https://files.pythonhosted.org/packages/7b/e5/83fcd7e9db036c179e0352bfcd20f81d728197a16f883e7b
090367a886e5/seaborn-0.13.0-py3-none-any.whl.metadata
DownLoading seaborn-0.13.0-py3-none-any.whl.metadata (5.3 kB)
Requirement already satisfied: numpy=1c.24.p,>=1.20 in ./.venv/lib/python3.11/site-packages (from seaborn) (1.26.2)
Collecting pandas>=1.2 (from seaborn)
Obtaining dependency information for pandas>=1.2 from https://files.pythonhosted.org/packages/d6/7c/20e737300f9bec011fb79c01d8948bc38c854876aac2
da2cfcdd0992b153/pandas=2.1.3-cp311-cp311-macosx_11_0_arm64.whl.metadata
DownLoading pandas=2.1.3-cp311-cp311-macosx_11_0_arm64.whl.metadata
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DownLoading pandas=2.2-seaborn)
Obtaining dependency information for pxtz=2030.1 from pandas=2.2-seaborn)
DownLoading pandas=2.2-seaborn)
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Using cached tzdata=203.3-py2.py3-none-any.whl.metadata
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Using cached tzdata=203.3-py2.py3-none-any.whl.metadata
Using cached tzdata=203.3-py2.py3-none-any.whl.metadata
Using cached tzdata=203.3-py2.py3-none-any.whl
```

Installation of Seaborn in VENV:

```
• (.venv) gauravvraii@Gauravs-Air LabSession8 % source .venv/bin/activate
• (.venv) gauravvraii@Gauravs-Air LabSession8 % pip3 install matplotlib
Collecting matplotlib—3.8.2-cp31-cp311-macosx_11_0 arm64.whl.metadata
Downloading matplotlib—3.8.2-cp31-cp311-macosx_11_0 arm64.whl.metadata (5.8 kB)
Collecting contourpy=1.0.1 (from matplotlib)
Obtaining dependency information for contourpy>=1.0.1 from https://files.pythonhosted.org/packages/5b/ac/26fa1057f62beaa2af4c55c6ac733b114a403b7
46cfe0cc3dc664ace921a/contourpy-1.2.0-cp311-cp311-macosx_11_0 arm64.whl.metadata
Downloading contourpy-1.2.0-cp311-cp311-macosx_11_0 arm64.whl.metadata
Downloading contourpy-1.2.0-cp311-cp311-macosx_11_0 arm64.whl.metadata
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Downloading contourpy-1.2.0-cp311-cp311-macosx_11_0 arm64.whl.metadata
Downloading cycler-0.12.1-py3-none-any.whl.metadata
Downloading cycler-0.12.1-py3-none-any.whl.metadata
Downloading cycler-0.12.1-py3-none-any.whl.metadata
Downloading cycler-0.12.1-py3-none-any.whl.metadata (3.8 kB)
Collecting fonttools=4.22.0 (from matplotlib)
Obtaining dependency information for fonttools=4.22.0 from https://files.pythonhosted.org/packages/70/e5/d873fc45592bd3cd5ca8a136d91877624b55a2
dcdb84c2e4cdc6b683a4ef/fonttools-4.45.1-cp311-cp311-macosx_10_9 universal2.whl.metadata
Downloading fonttools-4.45.1-cp311-cp311-macosx_10_9 universal2.whl.metadata
```